

Surface Mount Super Fast Rectifiers

(Pb) Lead(Pb)-Free

Features:

- * For Surface Mount Application
- * Low Reverse Current
- * High Current Capability

Mechanical Data:

- * Case : Molded Plastic
- * Terminals : Solder Plated Terminal-Solderable per MIL-STD-202, Method 208
- * Polarity : Indicated by cathode band
- * Weight : 0.093 grams

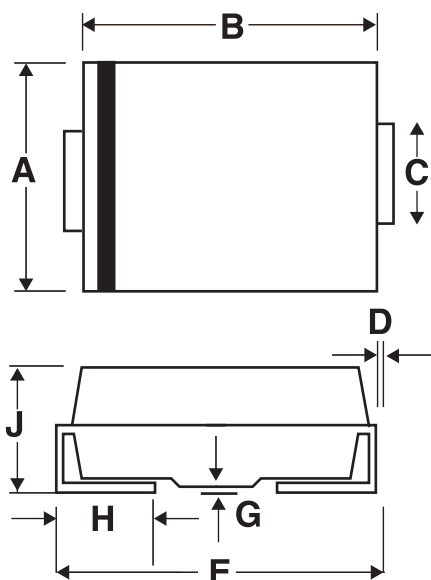
REVERSE VOLTAGE
50 TO 600 VOLTS
FORWARD CURRENT
2.0 AMPERE



SMB(DO-214AA)

SMB Outline Dimension

Unit:mm



SMB		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.80
C	1.96	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62

Maximum Ratings and Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

Single Phase Half Wave, 60Hz , Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

Characteristics	Symbol	ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2J	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	
Maximum Average Forward Rectifier Current	IF(AV)	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50							A
Maximum Instantaneous At 2.0A DC	VF	0.98				1.30		1.75	V
Maximum DC Reverse Current @TA=25℃ At Rated DC Blocking Voltage @TA=100℃	IR	5.0 100							μA
Maximun Reverse Recocery Time (Note2)	Trr	35							ns
Typical Junction Capacitance (Note1)	CJ	40				25			pF
Typical Thermal Resistance	RθJC	30							℃/W
Operating Temperature Range	TJ	-55 to +150							℃
Storage Temperature Range	TSTG	-55 to +150							℃

NOTE 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Measured with $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$.